

JP 3035625

Electrical power sending control method for mobile transmission system - realising high quality transmission and keeping reception level constant in spite of mobile station NoAbstract Dwg 1/8

Patent Assignee: NIPPON TELEGRAPH & TELEPHONE CORP (NITE)

Inventor: ONOE S; TANIGUCHI M; UTANO T; YASUDA S

Patent Family (2 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
JP 3035625	A	19910215	JP 1989169915	A	19890703	199113	B
JP 2995065	B2	19991227	JP 1989169915	A	19890703	200006	E

Priority Applications (no., kind, date): JP 1989169915 A 19890703

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
JP 2995065	B2	JA	9		Previously issued patent	JP 03035625

Alerting Abstract JP A

The photoelectric conversion element contains titanyl phthalocyanine in such a crystal state that peak values for X-ray diffraction for Cu-K α radiation are at 9.5 \pm 0.2 deg., 24.1 \pm 0.2 deg., and 27.2 \pm 0.2 deg. of Bragg angle (2 theta).

ADVANTAGE - Photoelectric conversion element having improved conversion efficiency can be cost savingly prepd.

ADVANTAGE - In an example, 29.2g of 1,3-diimino-isondoline and 200 ml of α -chloronaphthalene were mixed, then 20.4 g of titanium tetrabutoxide was added. The mixt. was heated at 140-150 deg. C for 2 hrs. in N₂ atmos. then at 180 deg. C for 3 hrs. PPte. was washed with α -chloronaphthalene, chloroform, 2% HCl aq. soln., then with methanol to obtain 26.2g of titanyl phthalocyanine. 10g of the titanyl phthalocyanine was dissolved in 200g of concn. H₂SO₄. The soln. was poured into 2 l of water and the ppte was washed with water to obtain wet paste. 800 ml of dichloroethane was added to the wet paste, and stirred for 2 hrs. at room temp., then the soln. was diluted with 1.6 l of methanol. The prod. was washed with methanol to obtain crystals of titanyl phthalocyanine. The prod. and silicone resin were dispersed in isopropanol, then applied on a Al deposited glass plate, then gold electrode was deposited on it to prepare the photoelectric conversion cell. @ (4pp Dwg.No.0/0)

Title Terms /Index Terms/Additional Words: ELECTRIC; POWER; SEND; CONTROL; METHOD; MOBILE; TRANSMISSION; SYSTEM; REALISE; HIGH; QUALITY; KEEP; RECEPTION; LEVEL; CONSTANT; SPITE; STATION; NOABSTRACT

Class Codes

International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
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H04B-007/26			Main		"Version 7"
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File Segment: EPI;
DWPI Class: W02
Manual Codes (EPI/S-X): W02-C03C

Original Publication Data by Authority

Japan

Publication No. JP 3035625 A (Update 199113 B)
Publication Date: 19910215
METHOD FOR CONTROLLING TRANSMISSION POWER IN MOBILE COMMUNICATION SYSTEM
Assignee: NIPPON TELEGR & TELEPH CORP <NTT> (NITE)
Inventor: TANIGUCHI MASAO
YASUDA SHUJI
ONOE SEIZO
UTANO TAKANORI
Language: JA
Application: JP 1989169915 A 19890703 (Local application)
Original IPC: H04B-7/26
Current IPC: H04B-7/26

Publication No. JP 2995065 B2 (Update 200006 E)
Publication Date: 19991227
Assignee: NIPPON TELEGRAPH & TELEPHONE CORP (NITE)
Language: JA (9 pages)
Application: JP 1989169915 A 19890703 (Local application)
Related Publication: JP 03035625 A (Previously issued patent)
Original IPC: H04B-7/26(A)
Current IPC: H04B-7/26(A)

Homogeneous immunoassay for digoxin - by using immobilised ouabain for sepn. of bound and free labelled components

Patent Assignee: DU PONT DE NEMOURS & CO E I (DUPO)
Inventor: CHANG S H; FREYTAG J W; FREYTAG W J

Patent Family (10 patents, 11 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
EP 143274	A	19850605	EP 1984111754	A	19841002	198523	B

JP 60105965	A	19850611	JP 1984205704	A	19841002	198529	E
DK 198404727	A	19850404				198530	E
US 4551426	A	19851105	US 1983538772	A	19831003	198547	E
			US 1984571966	A	19840118		
JP 62085864	A	19870420	FI 1985952	A	19850311	198721	E
CA 1227426	A	19870929				198743	E
EP 143274	B	19880113	EP 1984111754	A	19841002	198802	E
DE 3468742	G	19880218				198808	E
JP 1990060268	B	19901214	JP 1984205704	A	19841002	199103	E
JP 1991035625	B	19910528				199125	E

Priority Applications (no., kind, date): US 1983538772 A 19831003; US 1984571966 A 19840118

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
EP 143274	A	EN	32	1	
Regional Designated States,Original	BE DE FR GB IT LU NL				
CA 1227426	A	EN			
EP 143274	B	EN			
Regional Designated States,Original	BE DE FR GB IT LU NL				

Alerting Abstract EP A

Non-competitive immunoassay for measurement of digoxin (I) in a test sample comprises (a) formation of a reaction mixt. by contact of a molar excess of labelled mono- or di-valent (I) antibody with the test sample, when a fraction of the antibody forms a complex with the (I) and a fraction remains free; (b) contact of the reaction mixt. with a solvent phase having ouabain (II) immobilised on it. There is sufficient (II) to bind all the free antibody, so that the free antibody is bound to the solid phase; and (c) measurement of the amt. of complex eluted from the solid phase.

Competitive immunoassay for (I) comprises (a) mixing of the test sample with a molar excess of (II) immobilised on a solid phase; (b) contact of the mixt. with a labelled mono-or di-valent anti- (I) antibody in immunochemical excess over the (I) but in a deficiency relative to (II); (c) allowing reaction to occur, when a fraction of the antibody forms a first complex with the (I) and a second fraction forms a complex with immobilised (II); and (d) sepn. of the 2 fractions and measurement of the label present in either fraction.

USE/ADVANTAGE - The immunoassays have improved sensitivity and precision when (II) is used instead of (I) as immobilised antigen. (I) is determined in body fluids etc., esp. in the monitoring of (I) therapy.

Equivalent Alerting Abstract US A

Determn. of digoxin comprises mixing the aq. test soln. with labelled mono- or divalent anti-digoxin antibody (molar excess), so that a fraction of the antibody forms a complex; treatment with ouabain (sufficient to bind with all excess antibody) immobilised on an inert solid carrier; elution of the solid phase; and measurement of activity of the eluate, arising from the labelled complex in the eluate.

USE - The process is a rapid clinical method for the analysis for digoxin. (9pp)

Title Terms /Index Terms/Additional Words: HOMOGENEOUS; IMMUNOASSAY; DIGOXIN;

IMMOBILISE; OUABAIN; SEPARATE; BOUND; FREE; LABEL; COMPONENT

Class Codes

International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
A61K-0039/00	A	I		R	20060101
C12Q-0001/00	A	I		R	20060101
C12Q-0001/34	A	I	L	R	20060101
G01N-0033/53	A	I	F	R	20060101
G01N-0033/538	A	I		R	20060101
G01N-0033/543	A	I		R	20060101
G01N-0033/563	A	I		R	20060101
G01N-0033/94	A	I		R	20060101
A61K-0039/00	C	I		R	20060101
C12Q-0001/00	C	I		R	20060101
C12Q-0001/34	C	I	L	R	20060101
G01N-0033/53	C	I	F	R	20060101
G01N-0033/536	C	I		R	20060101
G01N-0033/543	C	I		R	20060101
G01N-0033/563	C	I		R	20060101
G01N-0033/94	C	I		R	20060101

US Classification, Issued: 435007920, 435007930, 435014000, 435810000, 435971000, 435975000, 436512000 , 436536000, 436541000, 436542000, 436804000, 436808000, 436815000, 436823000

File Segment: CPI; EPI

DWPI Class: B04; J04; S03

Manual Codes (EPI/S-X): S03-E14H4

Manual Codes (CPI/A-N): B01-D02; B04-B02C; B05-A04; B11-C07; B12-K04; J04-B01

Chemical Indexing

Derwent Registry Numbers: 1424-U; 2018-U

Chemical Fragment Codes (M1):

01 M903 M423 M760 N102 V600 V614

04 M903 M423 M430 M782 P831 V600 V611 V802 V815

Chemical Fragment Codes (M5):

02 M903 M910 M750 N102 S000 S131 S132 S133 S134 S142 S303 S312 S314 S317

S500 S512 S514 S800 S803 S833 T100 T117 T131 T132 T138 T142 U500 U501

V402

05 M903 M910 M430 M782 P831 S000 S131 S132 S133 S134 S142 S211 S301 S303

S305 S314 S317 S500 S501 S505 S511 S514 S519 S803 S833 T100 T117 T131

T132 T138 T142 U500 U501 V402

Chemical Fragment Codes (M6) :

03 M903 P831 R514 R515 R521 R611 R621 R624 R625 R638

Derwent Chemistry Resource Numbers: (Linked) 102896-USE; 82701-USE

(Unlinked) 102896-U; 82701-U

Key Word Indexing

1 102896-USE 82701-USE

Original Publication Data by Authority

Canada

Publication No. CA 1227426 A (Update 198743 E)

Publication Date: 19870929

Language: EN

Priority: US 1983538772 A 19831003

US 1984571966 A 19840118

Current IPC: G01N-33/536(R,I,M,EP,20060101,20051008,C) G01N-33/538(R,I,M,EP,20060101,20051008,A) G01N-33/563(R,I,M,EP,20060101,20051008,A) G01N-33/563(R,I,M,EP,20060101,20051008,C) G01N-33/94(R,I,M,EP,20060101,20051008,A) G01N-33/94(R,I,M,EP,20060101,20051008,C)

Germany

Publication No. DE 3468742 G (Update 198808 E)

Publication Date: 19880218

Language: DE

Priority: US 1983538772 A 19831003

US 1984571966 A 19840118

EPO

Publication No. EP 143274 A (Update 198523 B)

Publication Date: 19850605

Heterogener Immunttest fuer Digoxin unter Verwendung von Ouabain als Trennungsmittel
Heterogeneous immunoassay for digoxin using ouabain as a separation means
Dosage immunologique heterogene de la digoxine utilisant l'ouabain comme moyen de separation

Assignee: E.I. DU PONT DE NEMOURS AND COMPANY, 1007 Market Street, Wilmington Delaware 19898, US (DUPO)

Inventor: Freytag, J. William, 2614 Epping Road, Wilmington Delaware 19810, US

Chang, Shung-Ho, 1011 San Dieguito, Encinitas California 92024, US

Agent: von Kreisler, Alek, Dipl.-Chem., et al, Deichmannhaus am Hauptbahnhof, D-5000 Koeln 1, DE

Language: EN (32 pages, 1 drawings)

Application: EP 1984111754 A 19841002 (Local application)

Priority: US 1983538772 A 19831003

US 1984571966 A 19840118

Designated States: (Regional Original) BE DE FR GB IT LU NL

Original IPC: A61K-39/00 C12Q-1/00 G01N-33/94

Current IPC: G01N-33/536(R,I,M,EP,20060101,20051008,C) G01N-

33/538(R,I,M,EP,20060101,20051008,A) G01N-33/563(R,I,M,EP,20060101,20051008,A) G01N-

33/563(R,I,M,EP,20060101,20051008,C) G01N-33/94(R,I,M,EP,20060101,20051008,A) G01N-

33/94(R,I,M,EP,20060101,20051008,C)

Original Abstract: Heterogeneous immunoassay for digoxin using ouabain as a separation means.

A heterogeneous immunoassay for digoxin having improved sensitivity and precision is disclosed.

The improvement results from the use of ouabain rather than digoxin as the means for separating the bound and free labeled components.

Claim: Non-competitive immunoassay for measurement of digoxin (I) in a test sample comprises (a) formation of a reaction mixt. by contact of a molar excess of labelled mono- or di-valent (I) antibody with the test sample, when a fraction of the antibody forms a complex with the (I) and a fraction remains free; (b) contact of the reaction mixt. with a solvent phase having ouabain (II) immobilised on it. There is sufficient (II) to bind all the free antibody, so that the free antibody is bound to the solid phase; and (c) measurement of the amt. of complex eluted from the solid phase.

Competitive immunoassay for (I) comprises (a) mixing of the test sample with a molar excess of (II) immobilised on a solid phase; (b) contact of the mixt. with a labelled mono-or di-valent anti- (I) antibody in immunochemical excess over the (I) but in a deficiency relative to (II); (c) allowing reaction to occur, when a fraction of the antibody forms a first complex with the (I) and a second fraction forms a complex with immobilised (II); and (d) sepn. of the 2 fractions and measurement of the label present in either fraction.

Publication No. EP 143274 B (Update 198802 E)

Publication Date: 19880113

Heterogener Immuntest fuer Digoxin unter Verwendung von Ouabain als Trennungsmittel

Heterogeneous immunoassay for digoxin using ouabain as a separation means

Dosage immunologique heterogene de la digoxine utilisant l'ouabain comme moyen de separation

Assignee: E.I. DU PONT DE NEMOURS AND COMPANY, 1007 Market Street, Wilmington Delaware 19898, US

Inventor: Freytag, J. William, 2614 Epping Road, Wilmington Delaware 19810, US

Chang, Shung-Ho, 1011 San Dieguito, Encinitas California 92024, US

Agent: von Kreisler, Alek, Dipl.-Chem., et al, Deichmannhaus am Hauptbahnhof, D-5000 Koeln 1, DE

Language: EN

Application: EP 1984111754 A 19841002 (Local application)

Priority: US 1983538772 A 19831003

US 1984571966 A 19840118

Designated States: (Regional Original) BE DE FR GB IT LU NL

Original IPC: G01N-33/94 G01N-33/543 G01N-33/563

Current IPC: G01N-33/536(R,A,I,M,EP,20060101,20051008,C) G01N-33/538(R,I,M,EP,20060101,20051008,A) G01N-33/563(R,I,M,EP,20060101,20051001,A) G01N-33/563(R,I,M,EP,20061220,20051008,C) G01N-33/94(R,I,M,EP,20060101,20051008,A) G01N-33/94(R,I,M,EP,20060101,20051008,C)

Claim: A noncompetitive immunoassay for the measurement of digoxin in a test sample, said assay comprising the steps of: (a) forming a reaction mixture by contacting a molar excess of labeled monovalent or divalent anti-digoxin antibody with the test sample, whereby a fraction of said antibody forms a complex with the digoxin and a fraction remains free; and (b) contacting the reaction mixture with a solid phase having ouabain immobilized thereon, the ouabain being present in an amount capable of binding all of the free antibody. Whereby the free antibody is bound to the solid phase; and (c) measuring the amount of complex which elutes from the solid phase by measuring the activity of the label. (14pp)

Denmark

Publication No. DK 198404727 A (Update 198530 E)

Publication Date: 19850404

Language: DA

Priority: US 1983538772 A 19831003

US 1984571966 A 19840118

Current IPC: G01N-33/536(R,I,M,EP,20051008,20051008,C) G01N-33/538(R,I,M,EP,20060101,20051008,A) G01N-33/563(R,I,M,EP,20060101,20051008,A) G01N-33/563(R,I,M,EP,20060101,20051008,C) G01N-33/94(R,I,M,EP,20060101,20051008,A) G01N-33/94(R,I,M,EP,20060101,20051008,C)

Japan

Publication No. JP 60105965 A (Update 198529 E)

Publication Date: 19850611

Language: JA

Application: JP 1984205704 A 19841002 (Local application)

Priority: US 1983538772 A 19831003

US 1984571966 A 19840118

Current IPC: A61K-39/00(R,I,M,EP,20060101,20051110,A) A61K-39/00(R,I,M,EP,20060101,20051110,C) C12Q-1/00(R,I,M,EP,20060101,20051110,A) C12Q-1/00(R,I,M,EP,20060101,20051110,C) C12Q-1/34(R,I,M,JP,20060101,20051220,A,L) C12Q-1/34(R,I,M,JP,20060101,20051220,C,L) G01N-33/53(R,I,M,JP,20060101,20051220,A,F) G01N-33/53(R,I,M,JP,20060101,20051220,C,F) G01N-33/543(R,I,M,EP,20060101,20051110,A) G01N-33/543(R,I,M,EP,20060101,20051110,C)

Publication No. JP 62085864 A (Update 198721 E)

Publication Date: 19870420

Language: JA

Application: JP 1984205704 A 19841002 (Local application)

Priority: US 1983538772 A 19831003

US 1984571966 A 19840118

Current IPC: A61K-39/00(R,I,M,EP,20060101,20051110,A) A61K-39/00(R,I,M,EP,20060101,20051110,C) C12Q-1/00(R,I,M,EP,20060101,20051110,A) C12Q-1/00(R,I,M,EP,20060101,20051110,C) C12Q-1/34(R,I,M,JP,20060101,20051220,A,L) C12Q-1/34(R,I,M,JP,20060101,20051220,C,L) G01N-33/53(R,I,M,JP,20060101,20051220,A,F) G01N-33/53(R,I,M,JP,20060101,20051220,C,F) G01N-33/543(R,I,M,EP,20060101,20051110,A) G01N-33/543(R,I,M,EP,20060101,20051110,C)

Publication No. JP 1990060268 B (Update 199103 E)

Publication Date: 19901214

Language: JA

Application: JP 1984205704 A 19841002 (Local application)

Priority: US 1983538772 A 19831003

US 1984571966 A 19840118

Publication No. JP 1991035625 B (Update 199125 E)

Publication Date: 19910528

Language: JA

Priority: US 1983538772 A 19831003

US 1984571966 A 19840118

United States

Publication No. US 4551426 A (Update 198547 E)

Publication Date: 19851105

Heterogeneous immunoassay for digoxin using ouabain as a separation means

Assignee: E. I. Du Pont de Nemours and Company

Inventor: Freytag, William J., DE, US

Chang, Shung-Ho

Agent: Frank, George A.

Deitch, Gerald E.

Language: EN

Application: US 1983538772 A 19831003

US 1984571966 A 19840118 (Local application)

Current IPC: G01N-33/536(R,I,M,EP,20060101,20051008,C) G01N-33/538(R,I,M,EP,20060101,20051008,A) G01N-33/563(R,I,M,EP,20060101,20051008,A) G01N-33/563(R,I,M,EP,20060101,20051008,C) G01N-33/94(R,I,M,EP,20060101,20051008,A) G01N-33/94(R,I,M,EP,20060101,20051008,C)

Original US Class (main): 4357.92

Original US Class (secondary): 4357.93 43514 435810 435971 435975 436512 436536 436541 436542 436804 436808 436815 436823

Original Abstract: A heterogeneous immunoassay for digoxin. An excess of labeled anti-digoxin antibody is added to a test sample and the resulting reaction mixture is contacted with a solid phase having ouabain immobilized thereon. All the free, labeled antibody binds to the ouabain. The eluted digoxin anti-digoxin antibody complex is measured for label activity. A competitive mode is also disclosed.